

Scientific Notation

No Calculator

1. Write the following in full:

(a) 8.3×10^4

(b) 9.6×10^3

(c) 7.93×10^4

(d) 6.43×10^6

(e) 9.04×10^3

(f) 1×10^6

2. Write the following in full:

(a) 3.4×10^{-3}

(b) 2.3×10^{-4}

(c) 6.63×10^{-6}

(d) 9.1×10^{-2}

(e) 7×10^{-7}

(f) 1×10^{-9}

3. Write the following in scientific notation

(a) 59000000

(b) 2400000

(c) 112000

(d) 1000

(e) 1100000000

(f) 0.0506

(g) 0.000018

(h) 0.000000543

(i) 0.0012

You may use a scientific calculator for these

4. $4.23 \times 10^{-2} \div 5.67 \times 10^{-22}$

5. A cyclotron produces high speed particles. A particle moving inside the cyclotron takes 9.5×10^{-10} seconds to travel 2.1×10^{-1} metres. Calculate the speed of the particle in meters per second.

6. Andy travelled into space on a rocket, The rocket travelled at a speed of 1.45×10^4 miles per hour for a total of 7 hours. Calculate the total distance Andy ventured into space.